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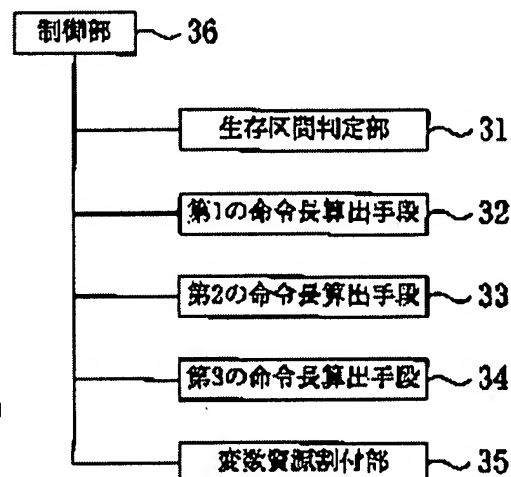
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(54) COMPILER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a compiler capable of generating a machine word program in a small instruction code size.

SOLUTION: A first instruction stream length calculating means 32 calculates an instruction stream length, when each variable in a source program is allocated to a first register source, while using an instruction described in a first instruction format. A second instruction stream length calculating means 33 calculates an instruction stream length, when each variable in the source program is allocated to a second register source different from the first register source, while using an instruction described in a second instruction format having an instruction length different from that of the first instruction format. Resource allocation is performed, corresponding to the calculated results.

LEGAL STATUS

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